

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	720	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:06
L2	113	360/324.2.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:02
L3	13	360/324.2.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) and magneto-resistance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:02
L4	21	360/324.2.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) and magneto	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:02
L5	15	("5193038" "5442508" "5465185" "5576915" "5627703" "5636093" "5701222" "5751521" "5793207" "5793576" "5825595" "5828529" "5859753" "5859754" "5898548").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/05 12:06
L9	3	(MTJ or (magnetic with tunnel with junction)) and (magneto-resistance or magnetoresistance or (magneto adj resistance)) with differ\$7 with magnitude	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:16
L10	3	("5416353" "5801984" "5877511").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/05 12:15
L11	4	(MTJ or (magnetic with tunnel with junction)) and (magneto-resistance or magnetoresistance or (magneto adj resistance)) with differ\$7 with magnitude	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:22
L12	62	(MTJ or (magnetic with tunnel with junction)) and (magneto-resistance or magnetoresistance or (magneto adj resistance)) with differ\$7 with (magnitude OR VALUE)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:32

L13	6	("5173873" "5329486" "5640343" "5764567" "5768181" "5940319").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/05 12:31
L14	178	(MTJ or (magnetic with tunnel with junction)) and (magneto-resistance or magnetoresistance or (magneto adj resistance)) SAME differ\$7 SAME (magnitude OR VALUE)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:35
L15	22	((FIRST NEAR MTJ) or (FIRST NEAR (magnetic with tunnel with junction))) and (magneto-resistance or magnetoresistance or (magneto adj resistance)) WITH differ\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:37
L16	4	365/173,158,171,8,173,232.ccls. and (MTJ or (magnetic with tunnel with junction)) and magneto-resistance with different WITH (MAGNITUDE OR VALUE)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:42
L17	7	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) and magneto-resistance with different WITH (MAGNITUDE OR VALUE)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:43
L18	8	(MTJ or (magnetic with tunnel with junction)) and magneto-resistance with different WITH (MAGNITUDE OR VALUE)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 12:43
S2	294	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 11:58
S3	93	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/28 15:26
S4	14	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) same sandwich\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/28 15:16
S5	4	("3623038" "5055158" "5390061" "5432734").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 08:38

S6	18	("5341118" "5408377" "5640343" "5650958" "5668688" "5748524" "5764567" "5793697" "5828598" "5835003" "5835314" "5838608" "5841692" "5898547" "5936402" "5946228" "5986858" "6021065").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 08:45
S7	71	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) same sandwich\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/22 10:04
S8	51	(MTJ or (magnetic with tunnel with junction)) same (free adj layer) same (tunnel\$3 adj barrier) same (pin\$3 adj layer\$1) same sandwich\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/22 10:25
S9	5	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free adj layer) same (tunnel\$3 adj barrier) same (pin\$3 adj layer\$1) same sandwich\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 12:35
S10	3	("5825682" "5982675" "6438665").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 10:56
S11	10	("5065362" "5361224" "5751627" "6021065" "6097629" "6147922" "6175525" "6178111" "6269027" "6304477").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 11:04
S12	3	("6175475" "6259586" "6295225").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 11:07
S13	7	("5640343" "6097625" "6130835" "6191972" "6215707" "6256224" "6256247").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 11:09
S14	1	("6108177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 11:39
S15	1	("6108177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 12:10
S16	9	("5390061" "5629922" "5636093" "5650958" "5654566" "5708358" "5828598" "5986858" "6022633").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 12:11

S17	9	("5390061" "5629922" "5636093" "5650958" "5654566" "5708358" "5828598" "5986858" "6022633").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 12:21
S18	9	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) same conductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:26
S19	13	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) same conductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:26
S20	2	"5,702831".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:26
S21	24	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 or barrier) same (pin\$3 with layer\$1) same conductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:27
S22	2	("6379978" "6473336").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/23 08:47
S23	69	(MTJ or (magnetic with tunnel with junction)) same ((first with free with layer) and (second with free layer)) same ((first with tunnel\$3 with barrier) and (second with tunnel\$3)) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 09:28
S25	88	(MTJ or (magnetic with tunnel with junction)) same ((first with free with layer) and (second with free layer)) same ((first with tunnel\$3) and (second with tunnel\$3)) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:53
S26	17	"365"/\$.ccls. and (MTJ or (magnetic with tunnel with junction)) same ((first with free with layer) and (second with free layer)) same ((first with tunnel\$3) and (second with tunnel\$3)) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 08:53

S27	2	("6379978" "6473336").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/23 09:26
S28	0	(MTJ or (magnetic with tunnel with junction)) same ((first with free with layer) and (second with free layer)) same ((first with tunnel\$3 with barrier) and (second with tunnel\$3)) same (pin\$3 with layer\$1) same (I/O or input/output) same (logic with circuit\$1) same conductor same parallel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 10:23
S29	2	"6,211559".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 11:07
S30	2	"6,166948".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 11:15
S31	18	("5,930165" "6,005800" "6,055178" "6,072718" "6,331943" "6,335890" "6,349054" "6,473337" "6,483734").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 11:17
S32	5	("5701222" "5991193" "6104632" "6269018" "6331944").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/23 11:48
S33	14	365/173,158,171,8,173,232.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1) same sandwich\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/28 15:26
S34	83	365/173,158,171,8,173,232.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same (pin\$3 with layer\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 16:41
S36	1	"10/464311"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/28 15:50
S37	1	10/464311	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 12:39

S38	2	"6,469926".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 16:30
S39	3	10/263495	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 16:33
S40	2	"6,166948".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 17:23
S41	2	"6,211559".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/29 17:23
S42	79	365/158,171,173.ccls. and (pinn\$2 adj layer) same (free adj layer) same (tunnel\$3 adj barrier)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/23 11:42
S43	1	("2003/0048658").URPN.	USPAT	OR	OFF	2005/05/23 11:53
S44	2	("6324096" "6442092").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/23 11:57
S45	5	("5650958" "5764567" "5792510" "5871622" "6297983").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/23 11:59
S46	2	09/768908	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/23 14:33
S47	239	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same (tunnel\$3 with barrier) same ((pinned adj layer) or fix)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 08:17
S48	54	(MTJ or (magnetic with tunnel with junction)) same (first with free with layer) same (first with tunnel\$3 with barrier) same ((pinned adj layer) or fix)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:56

S49	98310	chen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 08:36
S50	703	"365"/\$.ccls. and chen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 08:36
S51	11	"365"/\$.ccls. and chen.in. and MTJ	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 09:03
S52	2	("5764567" "6114719").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 11:50
S53	53	(MTJ or (magnetic with tunnel with junction)) and (first with tunnel\$3 with barrier) same between same ((pinned adj layer) or fix) same (first with free with layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 09:06
S54	1	("6108177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 09:36
S55	1	"6,185,080".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 09:36
S56	1	("6108177").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 10:00
S57	9	("5390061" "5629922" "5636093" "5650958" "5654566" "5708358" "5828598" "5986858" "6022633").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 10:18
S58	1	"6,469926".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 10:19
S59	2	(MTJ or (magnetic with tunnel with junction)) same (first with free with layer) same (first with tunnel\$3 with barrier) same ((pinned adj layer) or fix) same magneto-resistance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 10:28

S60	2	10/464311	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:41
S61	12612	Tang.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:42
S62	21	Tang.in. and MTJ	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:42
S63	8	("5793697" "5838608" "6242770" "6335890" "6418046" "6456524" "6630703" "6639830").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 11:49
S64	2225	(logic with circuit) near5 (I/O or input/output)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 11:51
S65	107	(memory adj cell\$1) with (logic with circuit) near5 (I/O or input/output)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:05
S66	20	(memory adj cell\$1) near5 (logic with circuit) near5 (I/O or input/output)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 11:52
S67	53	(MTJ or (magnetic with tunnel with junction)) same (first with free with layer) same (first with tunnel\$3 with barrier) same (pinned adj layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:56
S68	1	S65 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/27 11:56
S69	1	(memory adj cell\$1) with (logic with circuit) near5 (I/O or input/output) and (MTJ or (magnetic with tunnel with junction)) and (conductor with connect\$3 with MTJ)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:04
S70	1	(memory adj cell\$1) with (logic with circuit) near5 (I/O or input/output) and (MTJ or (magnetic with tunnel with junction)) and conductor	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:04

S71	1	(memory adj cell\$1) with (logic with circuit) near5 (I/O or input/output) and (MTJ or (magnetic with tunnel with junction))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:04
S72	1	(MTJ or (magnetic with tunnel with junction)) and (memory adj cell\$1) with (logic with circuit) near5 (I/O or input/output)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:05
S73	4	(MTJ or (magnetic with tunnel with junction)) and (memory adj cell\$1) same (logic with circuit) same (I/O or input/output)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 12:55
S74	1	"6,469926".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/27 13:25
S75	2	10/334002	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/08 15:47
S76	1	"6,185080".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 18:30
S77	1	(MTJ or (magnetic with tunnel with junction)) and (first with magneto-resistance with ratio) same differen\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/01 20:12
S78	11	(MTJ or (magnetic with tunnel with junction)) and (first with magneto-resistance with ratio) and differen\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/01 18:32
S79	2	"6,469926".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/01 20:22
S80	3	(MTJ or (magnetic with tunnel with junction)) with anti-ferromagnetic with (free adj2 layer) with conductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 14:16
S81	8	("5793697" "5838608" "6242770" "6335890" "6418046" "6456524" "6630703" "6639830").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 20:24

S82	13	("20020055190" "5341118" "5343422" "5573809" "5764567" "5966012" "6072718" "6153320" "6174737" "6269018" "6331944" "6473275" "6538859").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 20:24
S83	13	("20020055190" "5341118" "5343422" "5573809" "5764567" "5966012" "6072718" "6153320" "6174737" "6269018" "6331944" "6473275" "6538859").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 20:31
S84	8	("4791604" "5541868" "5640343" "5695864" "5734605" "6069820" "6072382" "6130835").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 20:33
S85	8	("5793697" "5838608" "6242770" "6335890" "6418046" "6456524" "6630703" "6639830").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/01 20:41
S86	14	(MTJ or (magnetic with tunnel with junction)) same (free with layer) same connect\$3 same anti-ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 14:15
S87	14	(MTJ or (magnetic adj tunnel adj junction)) same (free adj2 layer) same connect\$3 same anti-ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 14:35
S88	3	(MTJ or (magnetic adj tunnel adj junction)) same (free adj2 layer) same connect\$3 same anti-ferromagnetic same conductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 14:39
S89	2	("6518588" "6552926").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/08 14:38
S90	14	(MTJ or (magnetic adj tunnel adj junction)) same (free adj2 layer) same connect\$3 same anti-ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/08 14:48
S91	35	365/173,158,171,8,173,232.ccls. and (MTJ or (magnetic with tunnel with junction)) same (free with layer) same anti-ferromagnetic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/19 14:37

S92	2	("5856897" "6178112").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/08 16:46
S93	74	365/173,158,171,8,173,232.ccls. and (MTJ or (magnetic with tunnel with junction)) and magneto-resistance with different	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/05 12:41
S94	2	"6,185,080".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/19 14:57
S95	26	dual near tunnel near junction	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/19 14:57
S98	2	S95 and (magneto-resistance with different)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/19 14:58
S99	9	("20020055016" "20040136231" "5659499" "5940319" "5953248" "5956267" "5966012" "5966323" "6767655").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/19 14:59